

# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

MARCH-APRIL 1935

Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Selecting a farm. E. H. Thomson. 22 p., illus. (F. B. 1088F., rev.) Price, 5¢.

Gullies; how to control and reclaim them. C. E. Ramser, Bureau of Agricultural Engineering. 34 p., illus. (F. B. 1234F., rev.) Price, 5¢.

The production of cucumbers in greenhouses. James H. Beattie, Bureau of Plant Industry. 30 p., illus. (F. B. 1320F., rev.) Price, 5¢.

Currants and gooseberries: Their culture and relation to white pine blister rust. George M. Darrow and S. B. Detweiler, Bureau of Plant Industry. 42 p., illus. (F. B. 1398F., rev.) Price, 5¢.

Apple scab. John W. Roberts and Leslie Pierce, Bureau of Plant Industry. 12 p., illus. (F. B. 1478F., rev.) Price, 5¢.

Dehorning, castrating, branding, and marking beef cattle. W. H. Black and V. V. Parr, Bureau of Animal Industry. 12 p., illus. (F. B. 1600F., rev.) Price, 5¢.

Pear growing in the Pacific Coast States. C. F. Kinman and J. R. Magnus, Bureau of Plant Industry. 41 p., illus. (F. B. 1739F.) Price, 5¢.

Vetch culture and uses. Roland McKee and H. A. Schoth, Bureau of Plant Industry. 22 p., illus. (F. B. 1740F.) Price, 5¢.

Hotbeds and coldframes. W. R. Beattie, Bureau of Plant Industry. 29 p., illus. (F. B. 1743F.) Price, 5¢.

Subsistence farm gardens. W. R. Beattie, J. W. Roberts, and L. L. Harter, Bureau of Plant Industry; W. H. White, and D. L. Van Dine, Bureau of Entomology and Plant Quarantine. 54 p., illus. (F. B. 1746F.) Price, 5¢.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Physiologic specialization in *Puccinia coronata avenae*. H. C. Murphy, Bureau of Plant Industry. 48 p. (T. B. 433T.) Price, 5¢.

Boron in soils and irrigation waters and its effect on plants, with particular reference to the San Joaquin Valley of California. Frank M. Eaton, Bureau of Plant Industry. 132 p., illus. (T. B. 448T.) Price, 20¢.

Life history of lungworms parasitic in swine. Benjamin Schwartz and Joseph E. Alicata, Bureau of Animal Industry. 42 p., illus. (T. B. 456T.) Price, 5¢.

Agricultural investigations on the Newlands (Nev.) reclamation project. E. W. Knight, Bureau of Plant Industry, in cooperation with the Nevada Agricultural Experiment Station. 36 p., illus. (T. B. 464T.) Price, 5¢.

- A method of rural land classification. Charles E. Kellogg, Bureau of Chemistry and Soils, and J. Kenneth Ableiter, North Dakota Agricultural Experiment Station. 30 p., illus. (T. B. 469T.) Price, 5¢.
- Chemical studies of infertile soils derived from rocks high in magnesium and generally high in chromium and nickel. W. O. Robinson, Glen Edgington, and H. G. Byers, Bureau of Chemistry and Soils. 29 p. (T. B. 471T.) Price, 5¢.

#### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

- Conservation of wastes from the small-scale slaughter of meat animals. G. P. Walton and R. F. Gardiner, Bureau of Chemistry and Soils. 24 p., illus. (Cir. 63C., rev.) Price, 5¢.
- Trading in privileges on the Chicago Board of Trade. Paul Mehl, Grain Futures Administration. 80 p., illus. (Cir. 323C.) Price, 10¢.
- General information about the Japanese beetle in the United States. C. H. Hadley and I. M. Hawley, Bureau of Entomology and Plant Quarantine. 23 p., illus. (Cir. 332C.) Price, 5¢.
- Sample plots in silvicultural research. Forest Service. 91 p., illus. (Cir. 333C.) Price, 10¢.
- Distance of planting Rural New Yorker No. 2 and Triumph potatoes as affecting yield, hollow heart, growth cracks, and second-growth tubers. W. C. Edmundson, Bureau of Plant Industry. 19 p., illus. (Cir. 338C.) Price, 5¢.
- Effect of parboiling rough rice on milling quality. Jenkin W. Jones and J. W. Taylor, Bureau of Plant Industry. 15 p., illus. (Cir. 340C.) Price, 15¢.
- Causes of decadence in the old groves of North Dakota. Harold F. Scholz, Forest Service. 38 p., illus. (Cir. 344C.) Price, 5¢.
- The Dutch elm disease eradication project: Federal, State, and local cooperation. L. H. Worthley, Bureau of Entomology and Plant Quarantine. 4 p. (Cir. 353C.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

- Economic and social problems and conditions of the Southern Appalachians. Bureau of Agricultural Economics, Bureau of Home Economics, and Forest Service (in cooperation with the Office of Education, United States Department of Interior, and the agricultural experiment stations of Tennessee, Virginia, West Virginia, and Kentucky. 184 p., illus. (M. P. 205MP.) Price, 50¢.
- A naval stores handbook dealing with the production of pine gum or oleoresin. Forest Service, Bureau of Entomology and Plant Quarantine, and Bureau of Plant Industry. 201 p., illus. (M. P. 209MP.) Price, 20¢.
- Soil blowing and dust storms. Charles E. Kellogg, Bureau of Chemistry and Soils. 11 p., illus. (M. P. 221MP.) Price, 5¢.
- The direct marketing of hogs. Bureau of Agricultural Economics. 230 p., illus. (M. P. 222MP.) Price, 20¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

- Bureau of Animal Industry, Service and Regulatory Announcements. January 1935. Pp. 1-10. (S. R. A.-B. A. I. 333.); February 1935. Pp. 11-20 (S. R. A.-B. A. I. 334.) Price, 5¢ each.<sup>2</sup>
- Modification of nursery stock, plant, and seed quarantine regulations. Effective January 14, 1935. Bureau of Entomology and Plant Quarantine. 3 p. (B. E. P. Q.-Q. 37.)<sup>1</sup>

<sup>1</sup> These **may** be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Modification of black stem rust quarantine regulations. Effective February 20, 1935. Bureau of Entomology and Plant Quarantine. 1 p. (B. E. P. Q.-Q. 38).<sup>1</sup>

Modification of white pine blister rust quarantine regulations. Bureau of Entomology and Plant Quarantine. 2 p. (B. E. P. Q.-Q. 63).<sup>1</sup>

Dutch elm disease quarantine (domestic). Notice of quarantine no. 71, with regulations. Bureau of Entomology and Plant Quarantine. Effective February 25, 1935. 3 p. (B. E. P. Q.-Q. 71).<sup>1</sup>

Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements. October-December 1934. Pp. 93-124. (S. R. A.-B. E. P. Q. No. 121).<sup>1</sup>

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 427-457. (N. J. F. D. 22876-22950.) Pp. 67-94. (N. J. F. D. 23151-23225).<sup>1</sup>

Notice of judgment under the regulations of the Naval Stores Act. Food and Drug Administration. 1 p. (N. J., N. S. No. 6).<sup>1</sup>

Standards under the Tea Act. Food and Drug Administration, Service and Regulatory Announcements, Tea No. 9. Effective May 1, 1935. 1 p. (S. R. A. T. No. 9).<sup>1</sup>

Prosecutions under the interstate clause (sec. 6) of the Federal Seed Act. Bureau of Plant Industry, Service and Regulatory Announcements no. 20. 14 p. (S. R. A.-B. P. I. 20).<sup>1</sup>

#### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area.

California, the Dixon area. (No. 7, series 1931.) 47 p., illus. Price, 25¢.

Nebraska, Knox County. (No. 25, series 1930.) 51 p., illus. Price, 30¢.

#### OTHER PUBLICATIONS

Index to Publications of the United States Department of Agriculture, 1926-1930.

Mary A. Bradley, Office of Information. 694 p. For sale, \$1.25 (buckram).

Report of the Chief of the Weather Bureau, 1933-34. W. R. Gregg. 157 p. Price, \$1.25 (buckram). For sale only.

Report of the Puerto Rico Agricultural Experiment Station, 1934. 24 p., illus. Price, 5¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, nos. 3-4, March 1-April 1, 1935. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 12, nos. 2-3, February-March 1935. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Experiment station record. Vol. 72, nos. 2-4, February-April 1935. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 6, nos. 1-3, January-March 1935. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 49, no. 10. November 15, 1934. Illus.

Contents:

- Sphaceloma perseae* the cause of avocado scab (G-922). Anna E. Jenkins.  
Effects on wheat plants of *Ophiobolus graminis* at different levels in the soil (G-932). Hurley Fellows and C. H. Ficke.  
*Pythium sclerotrichum* n. sp. causing mottle necrosis of sweetpotatoes (G-935). Charles Drechsler.  
Storage of cotton pollen (G-936). George J. Harrison and H. J. Fulton.  
Catalase activity in relation to age and viability of sclerotia of the cotton root-rot fungus (G-937). C. J. King, E. D. Eaton, and Claude Hope.  
Influence of smut infection on plant vigor and other characters in smut-resistant oat varieties (G-938). V. C. Hubbard and T. R. Stanton.  
Methods of obtaining emergence *Tiphia* adults from imported cocoons for use against the Japanese beetle (K-254). H. W. Allen and R. W. Burrell.  
Natural crossing in the pigeonpea (J-4). C. P. Wilsie and Makoto Takahashi.  
Statistical analyses for finding a simple method for estimating the percentage heart rot in Minnesota aspen (Minn.-89). R. M. Brown.  
Some effects of vitamin-A-deficient diets on reproduction of sows (Calif.-70). E. H. Hughes.

— Vol. 49, no. 11. December 1, 1934. Illus.

Contents:

- Relation of leaf-rust infection to yield, growth, and water economy of two varieties of wheat (G-940). C. O. Johnston and E. C. Miller.  
*Fusarium*-resistant Danish Ballhead cabbage (G-939). J. C. Walker and L. M. Blank.  
Differential response of corn varieties to fertility levels and to seasons (G-943.) G. H. Stringfield and Robert M. Salter.  
The relation of the sugar content and odor of clarified extracts of plants to their susceptibility to attack by the Japanese beetle (K-255). F. W. Metzger, P. A. Van der Meulen, and C. W. Mell.  
Histological studies of a seedling disease of corn caused by *Gibberella moniliformis* (Fla.-12). R. K. Voorhees.  
The utilization of agricultural byproducts in the production of propionic acid by fermentation (Iowa-22). H. G. Wood and C. H. Werkman.  
Effect of dyes on yeast fermentation as influenced by hydrogen-ion concentration (Mo.-12). Esther Adams and William J. Robbins.  
The relation of sexual maturity and egg weight in the domestic fowl (Mo.-13). E. M. Funk.  
The effect of fluorine feeding on the storage of vitamin C in the rat and guinea pig (N. Y. (Cornell)-28). Hazel M. Hauck.

— Vol. 49, no. 12. December 15, 1934. Illus.

Contents:

- A cytological study of heterothallism in *Puccinia sorghi* (G-942). Ruth F. Allen.  
Studies on the possible origin of physiologic forms of *Sphacelotheca sorghi* and *S. cruenta* (G-923). H. A. Rodenhiser.  
A nematosis of *Amsinckia* caused by a new variety of *Anguillulina dipsaci* (G-941). G. Steiner and C. E. Scott.  
Some microbiological activities affected in manurial control of cotton root rot (G-944). C. J. King, Claude Hope, and E. D. Eaton.  
A study of the cotton root-rot fungus (*Phymatotrichum omnivorum*) in the soil by the chlodny method (G-945). E. D. Eaton and C. J. King.  
Nitrogen fixation studies with fungi and *Actinomyces* (E-57). Franklin E. Allison, Sam R. Hoover, and Herman J. Morris.  
Soil-water movement as affected by confined air (Oreg.-19). W. L. Powers.  
Transmissibility by aphids of the tobacco mosaic virus from different hosts (Wis.-64). Ismé A. Hoggan.

— Vol. 50, no. 1. Illus.

Contents:

- The utilization of energy-producing nutriment and protein in white and yellow corn and in diets deficient in Vitamins A, D, and G. (Pa.-49). Winfred W. Braman, Alex Black, O. J. Kahlenberg, LeRoy Voris, R. W. Swift, and E. B. Forbes.  
Ergot as a factor in the nutritive value of rye for rats and swine (Minn.-90). D. W. Johnson and L. S. Palmer.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

## Journal of Agricultural Research—Continued.

Vol. 50, no. 1. Illus.—Continued.

Contents—Continued.

Field reaction of varieties and selfed lines of corn to different collections of *Ustilago zeae* (Minn.-91). J. J. Christensen and I. J. Johnson.

Procedure for rapid calculation of multiple correlation coefficients (N. Mex.-5). G. N. Stroman.

Serological studies of swine Erysipelas with particular reference to agglutination (A-164). H. W. Schoening and G. T. Creech.

Histological studies of rice leaves infected with *Helminthosporium oryzae* (G-948). E. C. Tullis.*Gnomonia nerviseada*, the perfect stage of the fungus that causes the vein spot disease of pecan foliage (G-950). J. R. Cole.

— Vol. 50, no. 2. January 15, 1935. Illus.

Contents:

A physiological study of seasonal changes in the composition of the pecan during fruit development (G-946). Clifford J. B. Thor and Charles L. Smith.

A tetraploid hybrid of maize and perennial teosinte (G-947). G. N. Collins and A. E. Longley.

*Dictyostelium discoideum*, a new species of slime mold from decaying forest leaves (G-954). Kenneth B. Raper.

Effect of temperature of artificial drying on digestibility and availability of nutrients in pasture herbage (I-19). R. E. Hodgson, J. C. Knott, R. R. Graves, and H. K. Murer.

The thermophilic fermentation of beet pulp (E-58). O. L. Osburn, J. Stritar, and C. H. Werkman.

The isolation and distribution of nitrogen in dilute alkali-soluble proteins of healthy Valencia and Washington Navel orange fruits (Calif.-71). W. E. Sinclair, E. T. Bartholomew, and R. D. Nedvledek.

The vitamin A content of five varieties of sweetpotato (Tenn.-4). F. L. MacLeod, M. R. Armstrong, M. E. Heap, and L. A. Tolbert.

— Vol. 50, no. 3. February 1, 1935. Illus.

Contents:

Histological characteristics of plants grown in toxic concentrations of boron (G-951). Irma E. Webber.

Effect of variations in stand on yield and quality of sugar beets grown under irrigation (G-952). H. E. Brewbaker and G. W. Deming.

Studies on properties of the curly-top virus (G-956). C. W. Bennett.

Productivity of the camphor scale and the biology of its egg and crawler stages (K-256). C. I. Bliss, A. W. Cressman, and E. M. Broadbent.

Biology of the camphor scale and a method for predicting the time of appearance of stages in the field (K-257). A. W. Cressman, C. I. Bliss, L. T. Kessels, and J. O. Dumestre.

— Vol. 50, no. 4. February 15, 1935. Illus.

Contents:

Factors affecting infection and decay of sweetpotatoes by certain storage rot fungi (G-955). J. I. Lauritzen.

Variation and correlation in grain yield among 1,500 wheat nursery plots (G-949). Gustav A. Wiebe.

Morphology and biology of the wheat jointworm gall (K-258). W. J. Phillips and F. F. Dicke.

Monthly weather review. Vol. 62, no. 12, December 1934. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.<sup>2</sup> Not for general distribution.Public roads. Vol. 15, no. 12, February; vol. 16, no. 1, March 1935. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>Weekly weather and crop bulletin. Nos. 10-17, March 5-April 23, 1935. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

## AGRICULTURAL ADJUSTMENT ADMINISTRATION

Marketing agreement, amendment to marketing agreement, and amended license for the Florida celery industry. Marketing agreement series—agreement no. 42. License series—License no. 51. (M-59—rev. no. 1.) 27 p. Price, 5¢.<sup>2</sup>Amended license for distributors of crude gum, cleaned gum, gum turpentine, and/or gum rosin. License series—License no. 78. 10 p. (M-71—rev. 1.)<sup>2</sup>Marketing agreement for the paper shell pecan industry. Marketing agreement series—Agreement no. 57. (M-85.) 14 p. Price, 5¢.<sup>2</sup><sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Fifty questions and answers on wheat production adjustment. Commodity information series—Wheat Leaflet no. 1. 8 p.<sup>3</sup>

The wheat production adjustment problem after 1935. Commodity information series—Wheat Leaflet no. 2. 5 p.<sup>3</sup>

The facts about wheat. 28 p. illus.<sup>3</sup>

<sup>3</sup>These may be obtained free upon application to the Agricultural Adjustment Administration.

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Farmer's Bulletins	Leaflets	Other publications



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